High Definition Plasma Display

TH-42PH9EK
TH-42PH9ES
TH-42PH9BK
TH-42PH9BS

■Product summary

- 42" High Definition Plasma Display for professional use.
- Equipped with three interchangeable slots-provide flexible and powerful system solution by adding/exchanging wide variety of optional slot-in boards.
- Available with various unique professional features-Dual picture mode, Digital zoom, Built-in video wall image enlarger, etc..
- Various Energy-saving functions-DPMS, Auto power off, Power save mode, etc..

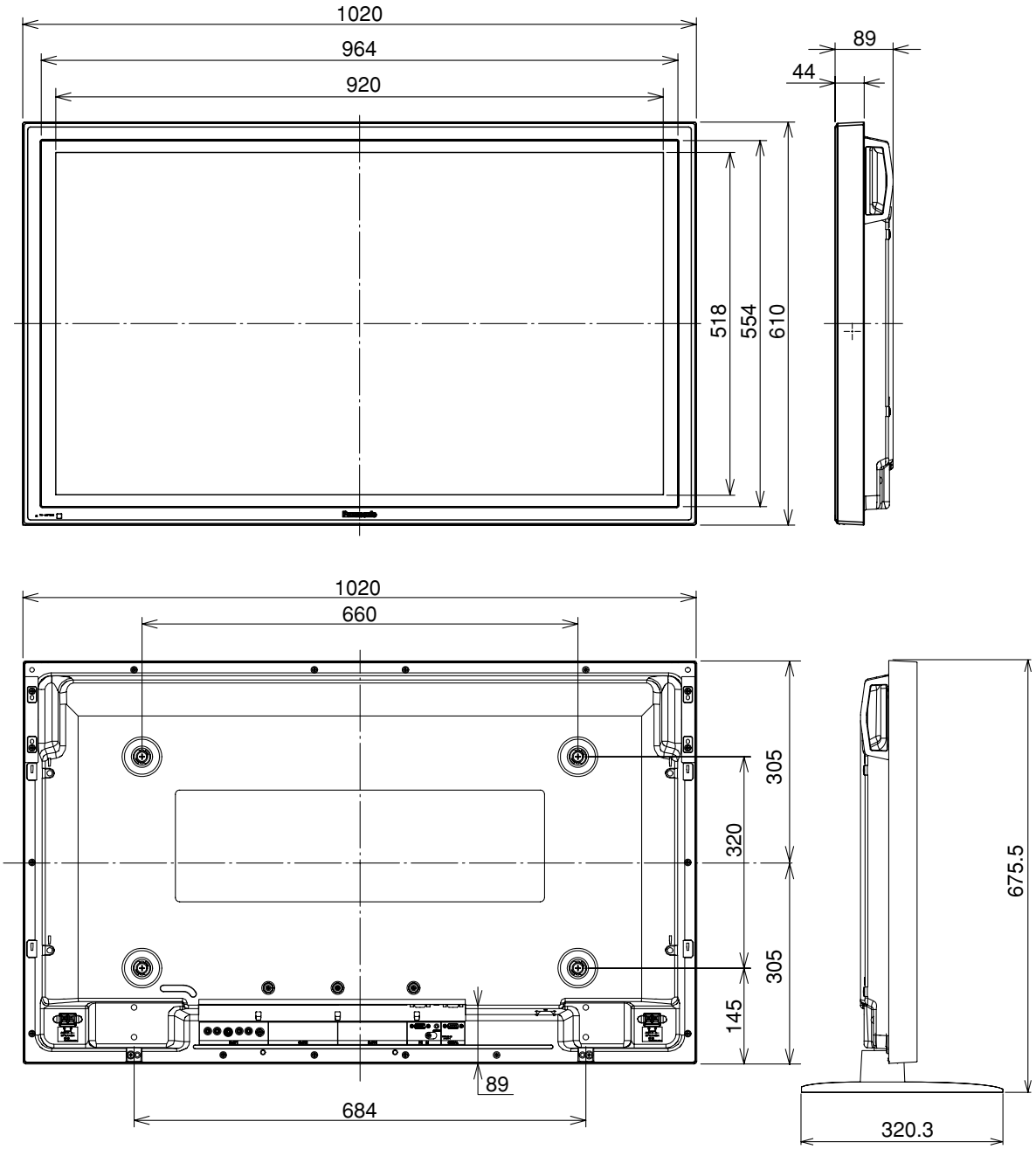
Note: Dual picture mode cannot handle the following combinations of two analog signals Component - Component, Component - PC(RGB), PC(RGB) - Component, PC(RGB) - PC(RGB)

■Product specification (Design and specifications subject to change without notice)

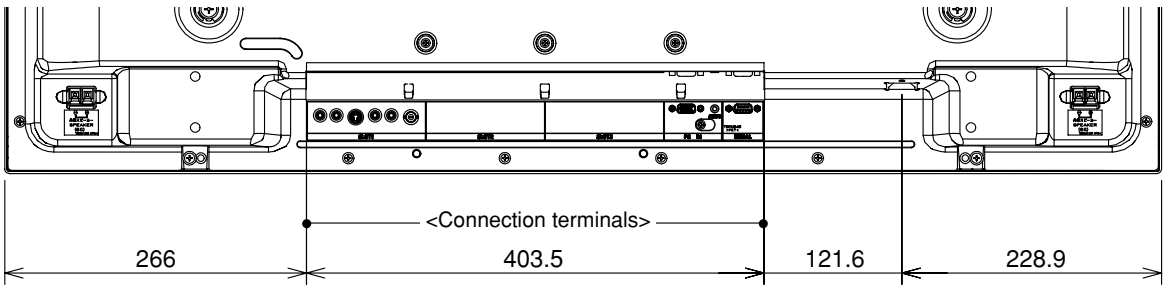
Display		
	Screen Size (Diagonal)	42-inch (106 cm)
	Aspect ratio	16:9
	Effective Display Area (W x H)	920 x 518 mm
	Resolution (H x V)	1,024 x 768 pixels (1pixel=3cells for R, G and B)
	Pixel Pitch (H x V)	0.900 x 0.675 mm
	Brightness	1,200 cd/m^2
	Contrast Ratio (Bright room)	10,000:1 (400:1)
	Gradation	3,072 steps (equivalent)
Signal Compatibility		
	Scan Rate	Horizontal frequency 15-110 kHz
		Vertical frequency 48 -120 Hz
	PC Signal Compatibility	VGA, SVGA, XGA,
		SXGA, UXGA ····· (Compressed)
	Supported Video Standards	NTSC, PAL, PAL 60, SECAM, Modified NTSC
	Video Signal Compatibility	525(480)/60i•60p, 625(575)/50i•50p, 750(720)/60p•50p, 1125(1080)/60i•50i•24p•24sF•25p•30p·····SMTPE274M, 1250(1080)/50i
Input / Output		
Fixed Terminal		
	PC IN	Mini D-sub 15pin x 1 Analog RGB/Components
		*Plug & Play (VESA DDC 1/2B)
	AUDIO IN	M3 jack x 1
	SERIAL	D-sub 9-pin x 1 External control, RS-232C compatible
Interchangeable Terminals		
(Slot1 : TY-FB9BD)	CVBS IN	BNC x 1 Composite
	AUDIO IN(L/R)	RCA pin jack x 2
	S-VIDEO	S-VIDEO x 1
	AUDIO IN(L/R)	RCA pin jack x 2
(Slot2)	Vacant	
(Slot3)	Vacant	
ELECTRICAL		
	Power Requirements	220 - 240 V AC, 50 Hz/60 Hz
	Power Consumption	330 W
	Power off condition	0.2 W
	Stand-by condition	Save OFF 0.8 W, Save ON 0.6 W
SOUND		
	Audio Output	16 W [8 W + 8 W] (10% THD)
MECHANICAL		
	Dimensions (W x H x D)	1,020 x 610 x 89 mm (exclusive protruding portion)
	Weight	approx. 27.0 Kg
	Cabinet colour	TH-42PH9EK, TH-42PH9BK : Black TH-42PH9ES, TH-42PH9BS : Silver
ENVIRONMENTAL		
Operating environment		
	Temperature	0 °C - 40 °C
	Humidity	20 % - 80 % (Non condensation)
	Altitude	0 - 2,800 m
Storage environment		
	Temperature	–20 °C - 60 °C
	Humidity	20 % - 90 % (Non condensation)
	Altitude	0 - 3,300 m
RADIATION REGULATIONS		
	EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3	
SAFETY STANDARDS		
	EN60065 Ver.7	
IR REMOTE CONTROL		
	Power Requirements	DC 3V (2 x AA Size dry cells)
	Operation distance	approx. 7m in front of plasma display
	Weight	approx. 130g including batteries
INCLUDED ACCESSORIES		
	• Fixing Band x 2 • AC power cord • Operating instruction book	
OPTIONAL ACCESSORIES		
	• Wall-hanging bracket(vertical,angled,drawer type) • Pedestal • Wall stand • Ceiling-hanging bracket • Mobile stand • Touch Panel • Speakers • Non glare filter • Terminal boards • Remote control	

■**Dimensions** (Shown with optional Pedestal stand)

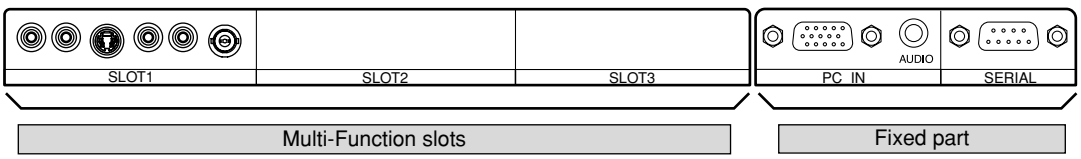
Units : mm



<Terminal dimension>



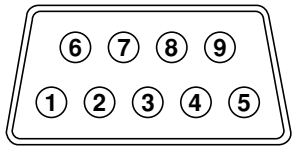
<Connection terminals>



■Preset Input Signals

	Signal name	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Optional Terminal Board: Composite Video TY-42TM6B/V	Component Video TY-42TM6A/Z	PC Input TY-42TM6P	RGB (Digital) TY-42TM6D	HDMI TY-FB8HM	BNC Dual Video TY-FB9BD	Composite/Component Video TY-42TM6Y	RGB Active Through TY-42TM6G	SDI TY-FB7SD	HD-SDI TY-FB7HD	PC IN (D-Sub15pin) Fixed Terminal
Composite	NTSC	15.73	59.94	Y					Y	Y				
	PAL	15.63	50.00	Y					Y	Y				
	PAL60	15.73	59.94	Y					Y	Y				
	SECAM	15.63	50.00	Y					Y	Y				
	Modified NTSC	15.73	59.94	Y					Y	Y				
Component	525 (480)/60i	15.73	59.94		Y	Y				Y	Y	Y	Y	Y
	525 (480)/60p	31.47	59.94		Y	Y	Y	Y		Y	Y			Y
	625 (575)/50i	15.63	50.00		Y	Y				Y	Y	Y	Y	Y
	625 (575)/50p	31.25	50.00		Y	Y	Y	Y		Y	Y			Y
	750 (720)/60p	45.00	60.00		Y	Y	Y	Y		Y	Y		Y	Y
	750 (720)/50p	37.50	50.00		Y	Y	Y	Y		Y	Y			Y
	1125 (1080)/60i	33.75	60.00		Y	Y	Y	Y		Y	Y		Y	Y
	1125 (1080)/50i	28.13	50.00		Y	Y	Y	Y		Y	Y		Y	Y
	1125 (1080)/24p	27.00	24.00		Y	Y				Y	Y		Y	Y
	1125 (1080)/24sF	27.00	48.00		Y	Y				Y	Y		Y	Y
	1125 (1080)/25p	28.13	25.00		Y	Y				Y	Y		Y	Y
	1125 (1080)/30p	33.75	30.00		Y	Y				Y	Y		Y	Y
	1250 (1080)/50i	31.25	50.00		Y	Y				Y	Y			Y
RGB	640 x 400 @70Hz	31.46	70.07		Y	Y				Y	Y			Y
	640 x 480 @60Hz	31.47	59.94		Y	Y	Y	Y		Y	Y			Y
	640 x 480 @72Hz	37.86	72.81		Y	Y				Y	Y			Y
	640 x 480 @75Hz	37.50	75.00		Y	Y				Y	Y			Y
	640 x 480 @85Hz	43.27	85.01		Y	Y				Y	Y			Y
	852 x 480 @60Hz	31.47	59.94		Y	Y	Y			Y	Y			Y
	800 x 600 @56Hz	35.16	56.25		Y	Y				Y	Y			Y
	800 x 600 @60Hz	37.88	60.32		Y	Y	Y			Y	Y			Y
	800 x 600 @72Hz	48.08	72.19		Y	Y				Y	Y			Y
	800 x 600 @75Hz	46.88	75.00		Y	Y				Y	Y			Y
	800 x 600 @85Hz	53.67	85.06		Y	Y				Y	Y			Y
	1024 x 768 @60Hz	48.36	60.00		Y	Y	Y			Y	Y			Y
	1024 x 768 @70Hz	56.48	70.07		Y	Y				Y	Y			Y
	1024 x 768 @75Hz	60.02	75.03		Y	Y				Y	Y			Y
	1024 x 768 @85Hz	68.68	85.00		Y	Y				Y	Y			Y
	1152 x 864 @75Hz	67.50	75.00		Y	Y				Y	Y			Y
	1280 x 960 @60Hz	60.00	60.00		Y	Y				Y	Y			Y
	1280 x 960 @85Hz	85.94	85.00		Y	Y				Y	Y			Y
	1280 x 1024 @60Hz	63.98	60.02		Y	Y				Y	Y			Y
	1280 x 1024 @75Hz	79.98	75.03		Y	Y				Y	Y			Y
	1280 x 1024 @85Hz	91.15	85.02		Y	Y				Y	Y			Y
	1600 x 1200 @60Hz	75.00	60.00		Y	Y				Y	Y			Y
	1600 x 1200 @65Hz	81.25	65.00		Y	Y				Y	Y			Y
	1066 x 600 @60Hz	37.88	60.32		Y	Y	Y			Y	Y			Y
	1366 x 768 @60Hz	48.36	60.00		Y	Y	Y			Y	Y			Y
	Mac 13 (640 x 480)	35.00	66.67		Y	Y				Y	Y			Y
	Mac 16 (832 x 624)	49.72	74.54		Y	Y				Y	Y			Y
	Mac 21 (1152 x 870)	68.68	75.06		Y	Y				Y	Y			Y

Serial RS232C: D-Sub 9-Pin (Female)



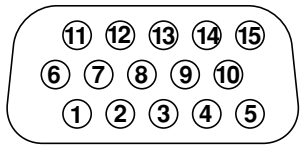
Pin Assignment and Signal Name

Pin No.	Signal name	Descriptions
1	CD	NC
2	RXD	Receive Data
3	TXD	Transmit Data
4	DTR	Not used
5	GND	Ground
6	DSR	Not used
7	RTS	Short Circuit
8	CTS	
9	RI	NC

Transmitting Conditions

Signal Level	Complied with RS232C
Synchronous System	Start/Stop Synchronous Communication
Baud Rate	9600 bps
Parity	Nil
Character Length	8 bits
Stop Bit	1 bit
X Parameter	Nil

PC Input: D-Sub 15-Pin (Female)



Signal Name

Pin No.	Signal name
1	R (P_R/C_R)
2	G (Y)
3	B (P_B/C_B)
4	GND (Ground)
5	GND (Ground)
6	GND (Ground)
7	GND (Ground)
8	GND (Ground)
9	NC (Not
10	GND (Ground)
11	GND (Ground)
12	SDA
13	HD/SYNC
14	VD
15	SCL